PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					
To: Groth & Co.KB	PCT				
Box 6107 102 32 Stockholm	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
	(PCT Rule 43bis.1)				
	Date of mailing 0 2 -12- 2004 (day/month/year)				
Applicant's or agent's file reference P 04-129/S	FOR FURTHER ACTION See paragraph 2 below				
International application No. PCT/SE 2004/000636 International filing de 26-04-2004	ate (day/month/year) Priority date (day/month/year) -				
International Patent Classification (IPC) or both national classi A61N 1/365, A61N 1/37, A61B 5/02					
Applicant St. Jude Medical AB et al					
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion					
IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further opinions, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
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Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE 2004/000636

Bo	x No. I	Basis of this opinion
1.	With re	egard to the language, this opinion has been established on the basis of the international application in the language in it was filed, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	claime	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the divention, this opinion has been established on the basis of:
	a. type	a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material in written format
		in computer readable form
	c. time	e of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additio	onal comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE 2004/000636

Box No. II	II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The question whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:							
	the entire international application						
\boxtimes	claims Nos. 13-20						
	the said international application, or the said claims Nos. 13-20 relate to the following subject matter which does not require an international preliminary examination (specify):						
or a	See PCT Rule 67.1.(iv).: Methods for treatment of the human or animal body by surgery or therapy, as well as diagnostic methods.						
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
	- I						
	The claims, or said claims Nos. are so inadequately supported						
	by the description that no meaningful opinion could be formed.						
	no international search report has been established for said claims Nos.						
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:						
	the written form has not been furnished						
	does not comply with the standard						
	the computer readable form has not been furnished						
	does not comply with the standard the tables related to the nucleotide and/or amino acid sequence listing if in computer readable form only, do not						
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.						
	See Supplemental Box for further details.						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Claims

International application No.

PCT/SE 2004/000636

NO

Box No. V	applicability; citations and explanations supporting such statement			
1. Stateme	nt			
Nove	elty (N)	Claims	1-12	YES
		Claims		NO NO
Inven	ntive step (IS)	Claims	1-12	YES
	Claims		NO	
I m do a		Claima	1-12	VES

2. Citations and explanations:

Documents cited in the International Search Report:

D1:EP 0591642 A1 D2:US 6438408 B1

D3:US 5476483 A1

D4:US 2003/0204145 A1

D5: "Diastolic heart failure", Mandinov L. et al. Cardiovascular research 45 (2000), p. 813-825.

The cited documents represent the general state of the art. The invention defined in claims 1-12 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed implantable medical apparatus for detecting diastolic heart failure by measuring pulse pressure for a predetermined workload situation and comparing the measured pulse pressure with a predetermined reference value. The cited prior art also does not give any indication that would lead a person skilled in the art to the claimed pacemaker comprising an above mentioned implantable medical apparatus and also comprising control means for optimising pacing therapy depending on the result of the comparison. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-12 is novel and is considered to involve an inventive step. The invention according to claims 1-12 is industrially applicable.